

**AMENDMENTS TO THE DRAWINGS**

**Replace** the original Fig. 1A and 1B with the attached sheet of drawings at Tab 1.

The following is an explanation of the changes made to the immediate prior version of the Figures: Pending Fig. 1A. has been amended to correct a typographical error by changing "G" to "H" as shown in red ink in Tab 2. Pending Fig. 1B. has been amended to correct a typographical error by changing "F" to "G" as shown in red ink in Tab 2. Support is in the originally filed Figure 1A and 1B (Tab 3) of the priority provisional Application No. 60/081,734 (our File UCSD-04729).

Enclosure:    Replacement Sheets (Tab 1)  
                  Annotated Sheet Showing Changes In Red Ink (Tab 2)  
                  Originally filed Sheets in Application No. 60/081,734 (Tab 3)

1 MSVDEICENTKMGREYALLGNYETSLVYYQGVLLQIQKLL  
 41 TSVHEPQRKHQWQTIRQELSQEYEHVKNITKTNGFKSEP  
 81 AAPEPAPNHRAAPFSHHQHAAPAAEPARDPDVWPPPTP  
 121 VDHRPSPPYQRAARKDPPRRSEPSK PANRAPGNDRGGRGP  
 161 SDRRGDARSGGGGRGGARGSDKDKNRGGKSDKDKKAPSGE  
 201 EGDEKKFDPAGYDKDLVENLERDIVQRNPNVHWADIAGLT  
 241 EAKRLLEEAVVLPLWMPDYFKGIRRPWKGVLMVGPPGTGK  
 281 TMLAKAVATECGTTFFNVSSASLTSKYHGESEKLVRLLEFE  
 321 MARFYAPSTIFIDEIDSICSKRGTGSEHEASRRVKSELLI  
 361 QMDGVSGPSAGEESSKMVMVLAATNFPWDIDEALRRRLEK  
 401 RIYIPLPEIDGREQLLRINLKEVPLADDIDLKSIAEKMDG  
 441 YSGADITNVCRDASMMAMRRRIQGLRPEEIRHIPKEELNQ  
 481 PSTPADFLLALQKVSXSVGKEDLVKYMAMWMEEFSGV

FIG. 1A

p60 231 VHWADIAGL TEAKRLLEEAVVLPLWMPDYFKGIRRPW.KGVLMVGPPGTG  
 mei-1 190 MSLDDIIGMHDVKQVLHEAVTIPLLVPEFFQGLRSPW.KAMVLGAGPPGTG  
 Suglp 145 STYDMVGGLTKOIKEIKEVIELPVKHPELFESLGIAQPKGVILY GPPGTG  
 ftsh 149 TTFADVAGCDEAKEEVAELVEY.LREPSRFQKLGGKIPKGVLMVGPPGTG  
 Paslp 694 IKWGDIGALANAKDVLLETLEWPTKYEPIFVNCPRLRLSGILLYGYPCCG  
 NSF 224 EKMGGIGGLDDEFSDIFRRASFARVFPPEIVEQMGCKHVKGILLYGPPGCG  
  
 p60 280 KTMLAKAVATECGTTFFN.VSSASLTSKYHGESEKLVRLLEFEMARFYAP.  
 mei-1 239 KTLARAIASESSSTFT.VSSTDLSKWRGDSEKIVRLLEFELARFYAP.  
 Suglp 195 KTLARAVAHHTDCKEIR.VSGAELVOKYIGEGSRMVRELFVMAREHAP.  
 ftsh 198 KTLAKAIAAGEAKVPFT.ISGSDFVEMFVGASRVDRDMFEQAKKAAP.  
 Paslp 744 KTLASAVAQOCGLNEIS.VKGPEILNKFIGASEQNIREFERAOSVKP.  
 NSF 274 KTLARQIGKMLNAREPKVVNKGPEILNKYMGESEANIRKLFADAEQQR  
  
 p60 328 .....STIFIIDEIDSICSKR..GTGSEHEASRRVKSELLIOMDGVSGP  
 mei-1 287 .....SIIFIIDEIDTLGGOR..GNSGEHEASRRVKSEFLVOMDG....  
 Suglp 243 .....SIIFIDEIDSIGSTRVEGSGGGDSEVORTMLELLNOLDGFET.  
 ftsh 246 .....CIIFIIDEIDAVGRORGAGLGGGHDEREQTLNQMLVEMDGFEG.  
 Paslp 792 .....CILFFDEEDSIAPKRGH...DSTGVTD RVVNQLLTOMDGAEG  
 NSF 324 LGANSGLHIIIFIIDEIDAICKORGS.MAGSTGVHDTVVNQLLSKIDGVEQL  
  
 p60 369 SAGEESSKMVMVLAATNFPWDIDEAIRR..RLEKRIYIPLPEIDGREQLL  
 mei-1 324 SQNKFD SRRVFLAATNIPWELDEAIRR..RFEKRIFIPLPDIDARKKLI  
 Suglp 285 .....SKNIKIIMATNRDLIDLPALLRPGRIDRKIEFPFPPSVAARAEIL  
 ftsh 288 .....NEGIIVIAATNRPDVLDPA LLRPGRFDRQVVVGLPDVRGREQIL  
 Paslp 832 D.....GVYILAATS RPD LIDSAILRPGRLDKSVICNIPTESERLDIL  
 NSF 373 N.....NIIIVIGMTNRPD LIDEALLRPGRLLEV KMEIGLPDEKGRLOIL  
  
 p60 417 RINL.....KEVPLADDIDLKSIAEKMDGYSGADIT  
 mei-1 372 EKSM.....EGTPKSDEINYDDLARTEGFSGADV  
 Suglp 329 RIHS.....RKMNLTRGINLRKVAEKMNGC SGADV  
 ftsh 332 KVHM.....RRVPLAPDIDAIIARGTPGFSGADLA  
 Paslp 875 QAI VNSKDKDTGOKKFALEKNADLKLIAEKTAGFSGADLO  
 NSF 416 HI...HTARMRGHQ..LLSADV DIKELAVETKNFSGAELE

FIG. 1B

1/9

1 MSVDEICENTKMGREYALLGNYETSLVYYQGV LQQIQKLL  
41 TSVHEPQRKHQWQTIHQELSQEYEHVKNITKTLNGFKSEP  
81 AAPEPAPNGRAAPFSHHOHAAKPAAAEPARDPDVWPPTP  
121 VDHRPSPPYQRAARKDPPRRSEPSK PANRAPGNDRGGRGP  
161 SDRRGDARSGGGGRGGARGSDKDKNRGGKSDKDKKAPSGE  
201 EGDEKKFDPAGYDKDLVENLERDIVORNPNVHWADIAGLT  
241 EAKRLLEEAVVLPLWMPDYFKGIRRPWKGVLMVGPPGTGK  
281 TMLAKAVATECGTTFFNVSSASLT SKYHGESEKLVRLLE  
321 MARFYAPSTIFIDEIDSICSKRGTGSEHEASRRVKSELLI  
361 OMDGVSGPSAGEESSKMVMVLAATNFPWDIDEALRRRLEK  
401 RIYIPLPEIDGREQLLRINLKEVPLADDIDLKSIAEKMDG  
441 YSGADITNVCRDASMMAMRRRIOGLRPEEIRHIPKEELNQ  
481 PSTPADFLLALQKVSKSVGKEDLVKYMAWMEEFGSV

FIG. 1A.

p60	231	VHWA	IA	GL	TEA	R	L	L	E	E	A	V	L	P	L	M	P	D	Y	F	K	G	I	F	P	W	.	K	G	V	L	M	V	G	P	P	G	T	G										
mei-1	190	MSLD	I	I	G	M	H	D	V	K	Q	V	L	H	E	A	V	T	I	P	L	P	E	F	F	O	G	L	R	S	P	.	K	A	M	V	L	A	G	P	P	G	T	G					
Sug1p	145	STYD	M	V	G	L	T	K	O	I	K	E	I	K	E	V	I	E	L	P	V	K	H	E	L	F	E	S	L	G	I	A	Q	P	K	G	V	L	M	V	G	P	P	G	T	G			
ftsh	149	TTF	A	V	A	G	C	D	E	A	K	E	E	V	A	E	L	V	E	.	L	R	E	P	S	R	F	O	K	L	G	G	K	E	P	K	G	V	L	M	V	G	P	P	G	T	G		
PAS1p	694	IKW	G	I	G	A	L	A	N	A	K	D	V	L	L	E	T	L	E	W	E	T	K	Y	E	P	I	E	V	N	C	P	L	R	L	S	G	I	L	L	Y	G	P	P	G	T	G		
NSF	224	EKM	G	I	G	L	D	K	E	F	S	D	I	F	R	A	F	A	S	R	V	F	P	E	I	E	V	E	Q	M	G	C	K	H	V	K	G	I	L	L	Y	G	P	P	G	T	G		
p60	280	KTM	L	A	K	A	V	A	T	E	C	G	T	T	F	F	N	.	V	S	S	A	S	L	T	S	K	Y	H	G	E	S	E	K	I	V	R	L	L	F	E	M	A	R	F	Y	A	P	.
mei-1	239	KTL	I	A	R	A	I	A	S	E	S	S	I	F	T	.	V	S	S	T	D	L	S	S	K	W	R	G	D	S	E	K	I	V	R	L	L	F	E	L	A	R	F	Y	A	P	.		
Sug1p	195	KTL	L	A	R	A	V	A	H	T	D	C	K	F	I	R	.	V	S	G	A	E	L	V	Q	Y	I	G	E	G	S	R	M	V	R	E	L	F	V	M	A	R	E	H	A	P	.		
ftsh	198	KTL	L	A	K	A	I	A	G	E	A	K	V	P	E	F	T	.	I	S	G	S	D	F	V	E	M	F	V	G	V	G	A	S	R	V	R	D	M	F	E	Q	A	K	A	A	P	.	
Pas1p	744	KTL	L	A	S	A	V	A	Q	C	G	L	N	E	I	S	.	V	K	G	P	E	I	L	N	F	I	G	A	S	E	Q	N	T	R	E	L	F	E	R	A	Q	S	V	K	E	.		
NSF	274	KTL	L	A	R	Q	I	G	K	M	L	N	A	R	E	P	K	V	N	G	P	E	I	L	N	K	Y	V	G	E	S	E	A	N	I	R	K	L	F	A	D	A	E	E	E	Q	R	.	
p60	328	.....	S	T	I	F	I	D	E	I	D	S	C	S	K	R	.	G	T	G	S	E	H	E	A	S	R	V	K	S	E	L	L	I	Q	M	D	G	V	S	G	P	.						
mei-1	287	.....	S	I	I	F	I	D	E	I	D	T	L	G	Q	R	.	G	N	S	G	E	H	E	A	S	R	V	K	S	E	L	L	I	Q	M	D	G	.	...									
Sug1p	243	.....	S	I	I	F	M	D	E	I	D	S	G	S	T	R	V	E	G	S	G	G	D	S	E	V	Q	E	T	M	L	E	L	N	L	Q	D	G	F	E	T	.							
ftsh	246	.....	C	I	I	F	I	D	E	I	D	A	V	G	R	Q	R	G	A	G	L	G	S	G	H	D	E	R	E	Q	T	L	N	Q	M	V	E	M	D	G	F	E	G	.					
Pas1p	792	.....	C	H	I	F	D	E	E	S	I	A	P	K	R	G	H	...	D	S	T	G	V	T	D	R	V	N	Q	L	L	I	Q	M	D	G	A	E	G	L									
NSF	324	LG	A	N	S	G	L	H	I	I	I	F	D	E	I	D	A	I	C	K	Q	R	G	S	.	M	A	S	T	G	V	H	D	T	V	N	Q	L	L	S	K	I	D	G	V	E	D	L	
p60	369	S	A	G	E	S	S	K	M	V	M	A	A	T	N	I	P	P	W	D	I	D	E	A	T	R	...	R	L	E	K	R	I	Y	I	P	L	P	E	I	D	G	R	E	Q	L			
mei-1	324	S	O	N	K	F	D	S	R	R	V	F	I	A	A	T	N	I	P	W	E	I	D	E	A	T	R	...	R	F	E	K	R	I	F	I	P	L	P	D	I	D	A	R	K	L			
Sug1p	285	.....	S	K	N	I	K	I	I	M	A	T	N	R	L	I	I	D	P	A	L	L	R	P	G	R	I	D	R	K	I	E	F	P	P	S	V	A	A	R	A	E	I	L					
ftsh	288	.....	N	E	G	I	I	A	A	T	N	R	P	D	V	I	D	P	A	L	L	R	P	G	R	F	D	R	Q	V	V	G	L	P	D	V	R	G	R	E	Q	I							
Pas1p	832	D	.....	G	V	Y	I	L	A	A	T	S	R	P	D	L	I	D	S	A	L	L	R	P	G	R	L	D	K	S	V	I	C	N	I	P	T	E	S	E	R	L	I						
NSF	373	N	.....	N	I	L	I	G	M	T	N	R	P	D	L	I	D	E	A	L	L	R	P	G	R	L	E	V	K	M	E	I	G	L	P	D	E	K	R	L	Q								
p60	417	R	I	N	L	.....	K	E	V	P	A	D	D	I	L	K	S	I	A	E	K	M	D	G	Y	S	G	A	D	I	T																		
mei-1	372	E	K	S	M	.....	E	G	T	P	K	S	D	E	I	N	Y	D	D	I	A	A	R	E	G	F	S	G	A	D	V																		
Sug1p	329	R	I	H	S	.....	R	K	M	N	I	T	R	G	I	N	L	R	K	V	A	E	K	M	G	S	G	A	D	V																			
ftsh	332	K	V	H	M	.....	R	R	V	P	I	A	P	D	I	D	A	A	I	A	R	G	T	P	P	G	F	S	F	A	D																		
Pas1p	875	Q	A	I	V	N	S	K	D	K	D	T	G	Q	K	F	A	L	E	K	N	A	D	L	K	L	I	A	E	K	T	A	G	F	S	F	A	D	L										
NSF	416	H	I	.....	H	T	A	R	M	R	G	H	Q	...	L	L	S	A	D	V	D	I	K	E	L	A	V	E	T	K	N	F	S	E	A	E	L												

FIG. 1B.

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**Fig. 1A**

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1      MSVDEICENTKMGREYALLGNYETSLVYYYQGYLQQIQKLL
41     TSVHEPQRKHQWQTIRQELSQEYEHVKNITKTNLNGFKSEP
81     AAPEPAPNHRAAPF SHHQHAAKPAAAEPARDPDVWPPPTP
121    VDHRPSPPYQRAARKDPPRRSEPSKPANRAPGNDRGGRGP
161    SDRRGDARSGGGGRGGARGSDKDKNRGGKSDKDKKAPSGE
201    EGDEKKFDPAGYDKDLVENLERD IVQRNPNVHWAD IAGLT
241    EAKRLLEEAVVLPLWMPDYFKGIRRPWKGYLMV GEPGTGE
281    TMLAKAVATECGTTFFNYSSASLT SKYHGESEKLVRLLEF
321    MARFYAPSTIFIDEIDSICSKRG TGSEHEASRRVKSELLI
361    QMDGVSGPSAGEESSSKMYMVL AATNFPWDIDEALRRRLEK
401    RIYIPLPEIDGREQLLRINLKEVPL ADDIDLKSIAEKMDG
441    YSGADITNVC RDASHMAMRRRIQGLRPEEIRHIPKEELNQ
481    PSTPADFLLALQKYSKSVGKEDLVKYMAWMEEF GSV

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**Fig. 1B**

p60	231	VHWADIAGLTEAKRLLECAVVLGLWMPDYFKGIRRPW.	KGYLMVCEPGTG
mei-1	190	MSLDDIICMHDVQVLFHAYTLELLVVEFFQGLRSPW.	KAMVLAEPGIG
Sug1p	145	STYDMVGGTLTKQIKEIKEVIELVYKHHELFESLGIAQPKGVILYCEPGTG	
ftsH	149	TTFADYAGCDEAKEEVAFVLEY.	LREDSRQKLGKIPKGYLMVCEPGTG
Pas1p	694	IKWGDIGALANAKDYLLTLEWETKYEPFVNCPLRLRSGLILYCEPGCG	
NSF	224	EKMGIIGGLDKEFSDIFRRASFVFP	PEIIVEQMGCKHYKGIILEYCEPGCG
p60	280	KTMLAKAVATECGTTFFN.	VSSASLTSEYHGESEKLVRLLEFEMARFYAP.
mei-1	239	KTFLARALASESSSTFT.	VSSDLSKWRGDSEKIVRLLEFELARFYAP.
Sug1p	195	KTFLARAVHHTDCKEIR.	VSGAELVQKYIEGSRMYREMPYMARHAP.
ftsH	198	KTFLAKALAGEAKVPEFT.	ISGSDFVEMFYGVGASRVEDMEQAKKAMP.
Pas1p	744	KTFLASAVLAQCGLNEIS.	VKGPEILNKEFISAEQNIREMPERAAQSVKE.
NSF	274	KTFLARQIGKMLNAREPKVYNG	PEILNKZYVESEANIRKMTADAEERQRR
p60	328	.....STIFIDEIDSTCSKR.	GTGSEHEASRRVKSEMLIQMDGVSGP
mei-1	287	.....STIFIDEIDTLGGQR.	GNSGEHEASRRVKSEFLVQMDG....
Sug1p	243	.....STIFIDEIDSTIGSTVEGSGGSDSEVQRTMLEMLNQLDGFEF.	
ftsH	246	.....CTIFIDEIDAVGRQRGAGLG	GGHDEREQTLNQMLVENDGFEF.
Pas1p	792	.....CTLFDEEDSTAPKEGH.	DSTGYTDEVVNQMLTOMDGAEG
NSF	324	LGANSGLHCTIFIDEIDATCKQRGS.	MAGSTGYVHTVYVNQMLSKIDGVEQL
p60	369	SAGEESSKMYMVLAAATNFPWDIDEALRR.	RLEKRIYIPLPEIDGREQL
mei-1	324	SNKFDSSRVFLAATNIEWELDEALRR.	RFEKRIFIPDPIDARKKLI
Sug1p	285	.....SKNIKIIMATNRLDILDPALTRPGR	IDRKIEFPFSSVAARAEIE
ftsH	288	.....NEGIIVIAATNRDYLDPALTRPGR	FDRQVYVGPDPVYRGREQL
Pas1p	832	D.....GVYILAATSREDLIDSALTRPGR	LDKSVICNIPTESERLDIL
NSF	373	N.....NILWIGMTNRDILIDEALTRPGR	LEVKMEIGLPDEKGRLOGL
p60	417	RINL.....KEYVPLADDIDLKSIAEKMDGYSGADIT	
mei-1	372	EKSM.....EGTPKSDENYDDLAAARTEGESGADVY	
Sug1p	329	RIHS.....RKMNLTRGINLRKYAEKMNCCSGADYK	
ftsH	332	KVHM.....RRVPLAPDIDAALIAARGTPGESGADLA	
Pas1p	875	QAIYNSKDKDTGQKKFAL	EKNADLKLIAEKTAGESGADLQ
NSF	416	HI...HTARMRGHQ..LLSADVDIKELAVETKNE	ESGAELE